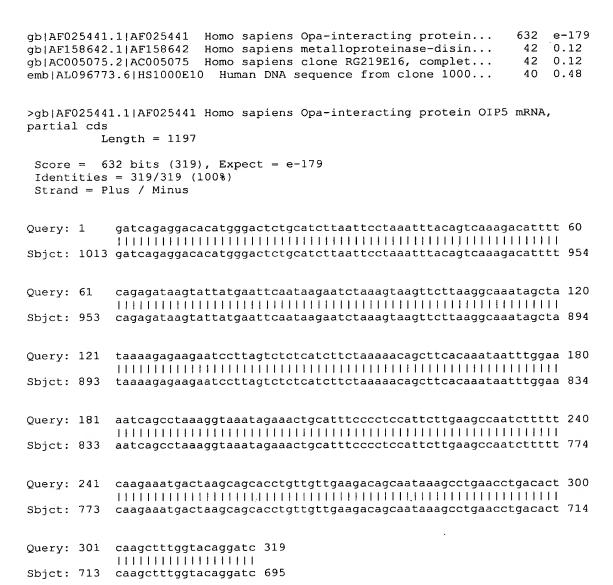
App No.: 09/942,052 Docket No.: 511582002800 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 1 of 24

Fig. 1

85P1B3 SSH sequence and GenBank homology to OIP5

GATCAGAGGACACATGGGACTCTGCATCTTAATTCCTAAATTTACAGTCAAAGACATTTTCAGAGATAAGTATTAT
GAATTCAATAAGAATCTAAAGTAAGTTCTTAAGGCAAATAGCTATAAAAGAGAAGAATCCTTAGTCTCTCATCTTC
TAAAAACAGCTTCACAAATAATTTGGAAAATCAGCCTAAAGGTAAATAGAAACTGCATTTCCCCTCCATTCTTGAA
GCCAATCTTTTTCAAGAAATGACTAAGCAGCACCTGTTGTTGAAGACAGCAATAAAGCCTGAACCTGACACTCAAG
CTTTGGTACAGGATC





Docket No.: 511582002800

App No.: 09/942,052 Docket No.: 51158200280
Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN
USEFUL IN TREATMENT AND DETECTION OF CANCER

(AS AMENDED)

REPLACEMENT SHEET

Sheet 2 of 24

Fig. 2-A cDNA Sequence and ORF of 85P1B3/OIP5 clone A

| 5 ' | GGC | TGC | 9 GGG | AAG | ATG | 18 G CG | GCT | CAG | 27 CCG | CTG | CGG | 36 CAT | CGC | TCA | 45 CGT | TGT | GCA | 54 ACG |
|------------|----------|-----|-----------------|-----|-----|-------------------|-----|-----|------------|-----|-----|------------|-----|-----|------------|-----|---------|----------------|
| | - | | | | м | Α | A | Q | P | L | R | Н | R | s | R | С | A | T |
| | CCG | CCC | 63 CGG | GGG | GAC | 72 TTT | TGT | GGT | 81 GGC | ACT | GAG | 90 AGG | GCG | ATT | 99 GAC | CAA | GCT | 108 TCT |
| | P | P | R | G | D | F | С | G | G | T | E | R | A | I | D | Q | A | S |
| | TTT | ACG | 117 ACC | TCC | ATG | 126 GAG | TGG | GAT | 135 ACG | CAG | GTG | 144 GTG | AAG | GGG | 153 TCC | TCG | CCG | 162 CTC |
| | F | T | Т | s | М | E | W | D | T | Q | V | V | K | G | S | S | P | L |
| | GGC | ccc | 171 GCA | GGG | CTG | 180 GGG | GCT | GAG | 189 GAG | CCA | GCC | 198 GCC | GGC | CCG | 207 CAG | CTG | CCG | 216 TCT |
| | G | P | Α | G | L | G | Α | E | E | P | A | A | G | P | Q | L | P | S |
| | TGG | CTG | 225 CAG | CCT | GAG | 234 AGG | TGC | GCT | 243 GTG | TTC | CAG | 252 TGC | GCA | CAG | 261 TGT | CAC | GCA | 270 GTG |
| | W | L | Q | P | Ē | R | С | A | V | F | Q | С | Α | Q | С | H | Α | V |
| | CTC | GCC | 279 GAC | TCG | GTG | 288 CAC | CTC | GCC | 297 TGG | GAC | CTG | 306 TCG | CGG | TCC | 315 CTC | GGG | GCC | 324 GTG |
| | L | A | D | S | V | Н | L | Α | W | D | L | S | R | S | L | G | A | V |
| | GTC | TTC | 333 TCC | AGA | GTT | 342 ACA | AAT | AAC | 351 GTC | GTT | TTG | 360 GAA | GCG | ccc | 369 TTC | CTA | GTT | 378 GGC |
| | V | F | s | R | V | Т | N | N | V | V | L | E | A | P | F | L | V | G |
| | ATT | GAA | 387 GGT | TCA | CTC | 396 AAA | GGC | AGT | 405 ACT | TAC | AAC | 414 CTT | TTA | TTC | 423 TGT | GGT | TCT | 432 TGT |
| | I | E | G | S | L | K | G | S | Т | Y | N | L | L | F | С | G | S | С |
| | GGG | ATT | 441 CCC | GTT | GGT | 450 TTC | CAT | CTG | 459 TAT | TCT | ACC | 468 CAT | GCT | GCC | 477 CTG | GCT | GCC | 486 TTG |
| | G | I | P | V | G | F | Н | L | Y | S | Т | Н | Α | A | L | Α | A | L |
| | AGA | GGT | 495 CAC | TTC | TGC | 504 CTT | TCC | AGT | 513 GAC | AAA | ATG | 522 GTG | TGC | TAT | 531 CTC | TTA | AAA | 540 ACA |
| | R | G | Н | F | С | L | s | S | D | K | М | V | С | Y | L | L | K | Т |
| | AAA | GCC | | GTA | | 558 GCA | | | 567 ATG | GAT | | 576 CAA | | GTT | 585 CCT | | TCA | 594 GAA |
| | K | A | I | V | N | Α | S | E | M | D | I | Q | N | V | P | L | Ş | E |
| | AAG | ATT | | GAG | | | | AAG | | GTG | | 630 ACG | | AAT | | TTA | AAA | 648 TCA |
| | K | I | A 657 | Е | L | К 666 | E | K | I 675 | V | L | T 684 | Н | N | R 693 | L | K | s 702 |
| | CTA | ATG | | ATT | | | | GTG | | CCT | GAC | CAG | TCC | AAG | | GAA | AAC | |
| | L | M | к 711 | I | L | s 720 | | V | | Р | | Q 738 | | K | P 747 | E | N | * 756 |

App No.: 09/942,052 Docket No.: 511582002800 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 3 of 24

Fig. 2-B

| TCC | TGT | ACC | AAA | GCT | TGA | GTG | TCA | GGT | TCA | GGC | TTT | ATT | GCT | GTC | TTC | AAC | AAC |
|-----|------|------|-----|-----|------|------|-----|------|-----|-----|------|-----|-----|------|----------|-----------|-----------|
| | | 765 | | | 774 | | | 793 | | | 792 | | | 801 | - | | 810 |
| AGG | TGC | | тта | GTC | | | | AAA | | | | | | | GAG | GGG | |
| | | | | | | | | | | | | | | | | | |
| | | 819 | | | | | | 837 | | | | | | 855 | | | 864 |
| TGC | AGT | TTC | TAT | TTA | CCT | TTA | GGC | TGA | | | | TTA | TTT | GTG | AAG | CTG | TTT |
| ~ | | 073 | | | 002 | | | 891 | | | | | | 909 | | | 918 |
| αυτ | GAA | | | | | | | CTT | | | | | | | CCT | TAA | |
| | | | | | | | | | | | | | | | | - | |
| | | 927 | | | | | | 945 | | | | | | | | | |
| CTT | | | | | | | | CAT | | | TAT | CTC | TGA | AAA | TGT | CTT | TGA |
| | | 981 | | | | | | 999 | | | 1008 | | | 1017 | | | 1026 |
| CTG | ממיד | | | | | | | AGA | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | 1035 | | | | | | 1053 | | | | | | | | | 1080 |
| GCA | TGG | TTG | | | | | | TGG | | | | | | CTA | TTA | CTC | CTG |
| | | | | | | | | 1107 | | | | | | 1125 | | | 134 |
| СУТ | | | | | | | | AAT | | | | | | | | | |
| | | | | | | | | | | | | | | | | | - |
| | | | | | | | | 1161 | | | | | | | | | 188 |
| CAG | ATC | ATA | ATA | TTC | TAT | AGG | TAA | TGT | TTA | ATA | AAT | TGC | CTG | AAT | AAT | AAA | AAA |
| | | | | | | | | 1215 | | | 1224 | | | 1233 | | | 1242 |
| ααα | | | | | | | | AAA | | | | | | | | | |
| | | | | | | | | | | | | | | | | - | |
| | 1 | 1251 | | : | 1260 | | | | | | | | | | | | |
| AAA | AAA | AAA | AAA | AAA | AAA | AA C | 3 ' | | | | | | | | | | |

App No.: 09/942,052 Docket No.: 511582002800

Inventor: Arthur B. RAITANO et al.

Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER

(AS AMENDED)

REPLACEMENT SHEET

Sheet 4 of 24

Fig. 3

85P1B3/OIP5 protein sequence.

1 MAAQPLRHRS RCATPPRGDF CGGTERAIDQ ASFTTSMEWD TQVVKGSSPL GPAGLGAEEP

61 AAGPQLPSWL QPERCAVFQC AQCHAVLADS VHLAWDLSRS LGAVVFSRVT NNVVLEAPFL

121 VGIEGSLKGS TYNLLFCGSC GIPVGFHLYS THAALAALRG HFCLSSDKMV CYLLKTKAIV

181 NASEMDIQNV PLSEKIAELK EKIVLTHNRL KSLMKILSEV TPDQSKPEN*

App No.: 09/942,052 Docket No.: 511582002800 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 5 of 24

Fig. 4

Alignment of 85P1B3 with OIP5.

>gi|2815610|gb|AAC39561.1| (AF025441) Opa-interacting protein OIP5 [Homo sapiens]

Length = 231

Score = 462 bits (1189), Expect = e-130 Identities = 229/229 (100%), Positives = 229/229 (100%)

85P1B3: 1 MAAQPLRHRSRCATPPRGDFCGGTERAIDQASFTTSMEWDTQVVKGSSPLGPAGLGAEEP 60
MAAQPLRHRSRCATPPRGDFCGGTERAIDQASFTTSMEWDTQVVKGSSPLGPAGLGAEEP 62

85P1B3: 61 AAGPQLPSWLQPERCAVFQCAQCHAVLADSVHLAWDLSRSLGAVVFSRVTNNVVLEAPFL 120
AAGPQLPSWLQPERCAVFQCAQCHAVLADSVHLAWDLSRSLGAVVFSRVTNNVVLEAPFL 122

85P1B3: 121 VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTHAALAALRGHFCLSSDKMVCYLLKTKAIV 180
VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTHAALAALRGHFCLSSDKMVCYLLKTKAIV 182

85P1B3: 123 VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTHAALAALRGHFCLSSDKMVCYLLKTKAIV 182

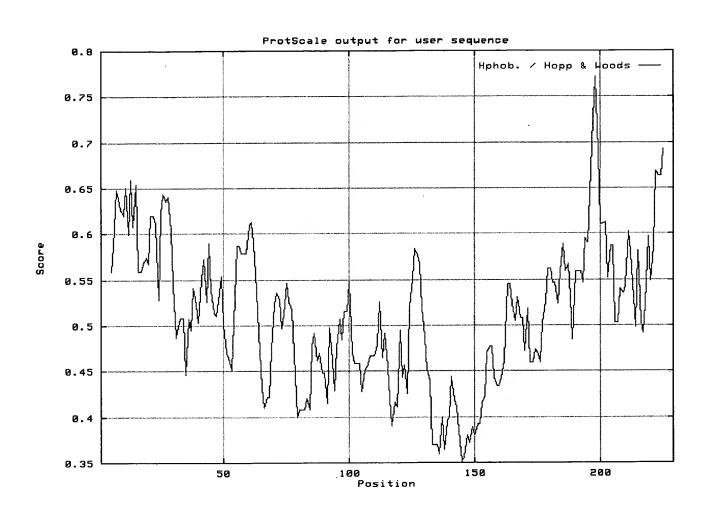
85P1B3: 181 NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLMKILSEVTPDQSKPEN 229
NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLMKILSEVTPDQSKPEN 229

NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLMKILSEVTPDQSKPEN 231

App No.: 09/942,052 Docket No.: 511582002800 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 6 of 24

Fig. 5: 85P1B3 Hydrophilicity Profile

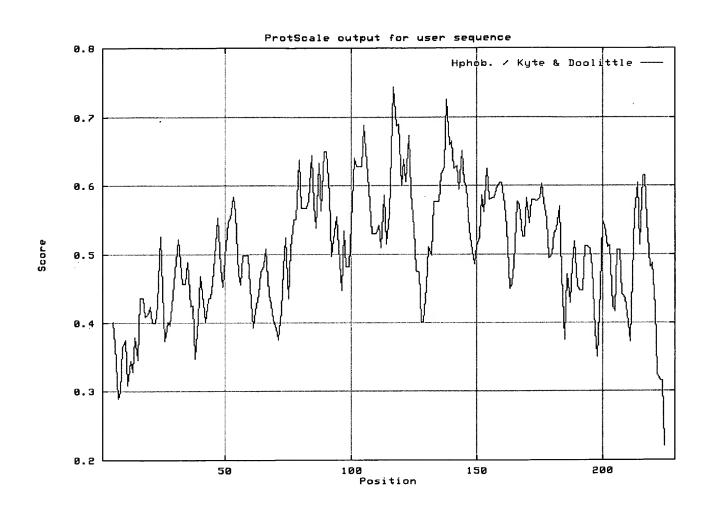
(Hopp T.P., Woods K.R., 1981. Proc. Natl. Acad. Sci. U.S.A. 78:3824-3828)



App No.: 09/942,052 Docket No.: 511582002800 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 7 of 24

Fig. 6: 85P1B3 Hydropathicity Profile

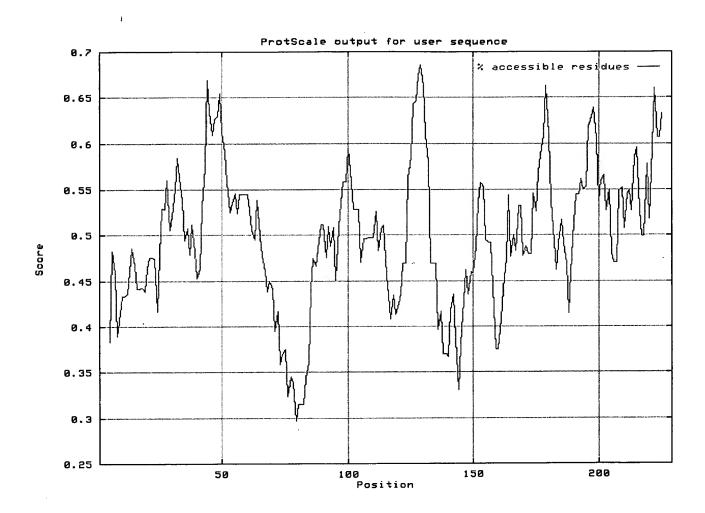
(Kyte J., Doolittle R.F., 1982. J. Mol. Biol. 157:105-132)



App No.: 09/942,052 Docket No.: 511582002800 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 8 of 24

Fig. 7: 85P1B3 % Accessible Residues Profile

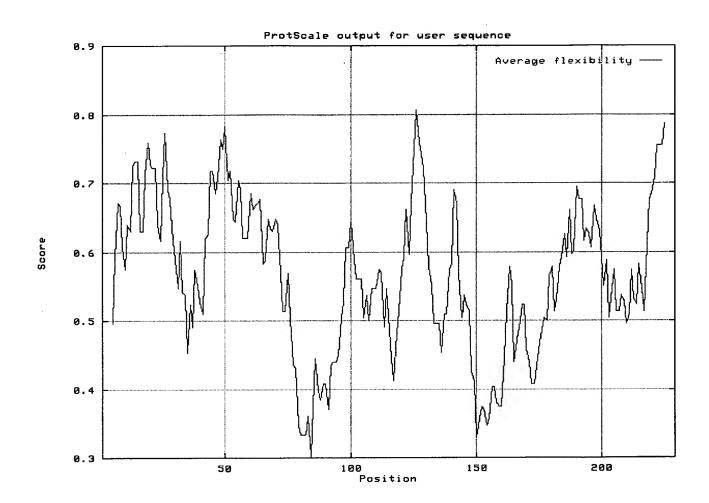
(Janin J., 1979. Nature 277:491-492)



App No.: 09/942,052 Docket No.: 511582002800 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUŁ IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 9 of 24

Fig. 8: 85P1B3 Average Flexibility Profile

(Bhaskaran R., Ponnuswamy P.K., 1988. Int. J. Pept. Protein Res. 32:242-255)



App No.: 09/942,052 Docket No.: 511582002800

Inventor: Arthur B. RAITANO et al.

Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER

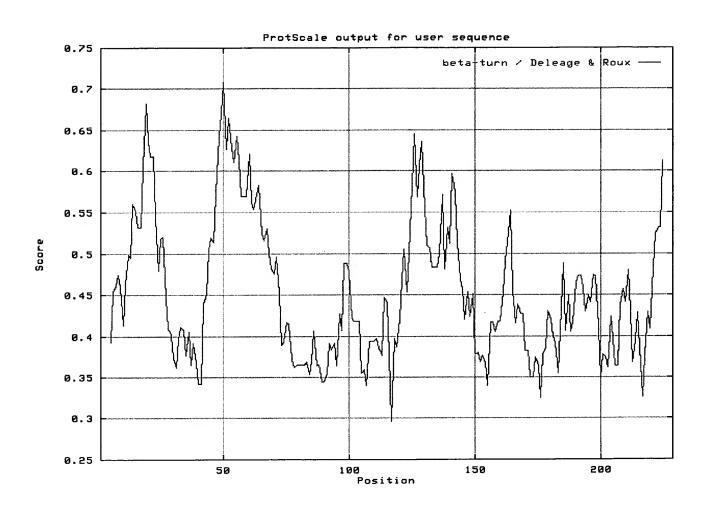
(AS AMENDED)

REPLACEMENT SHEET

Sheet 10 of 24

Fig. 9: 85P1B3 Beta-turn Profile

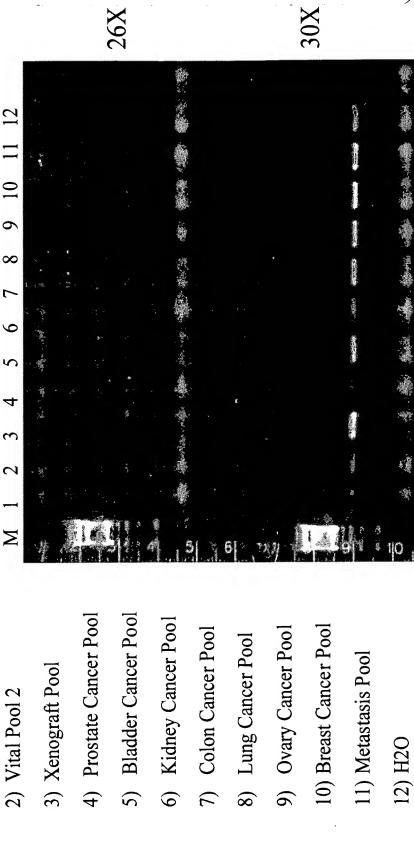
(Deleage, G., Roux B. 1987. Protein Engineering 1:289-294)



App No.: 09/942,052 Docket No.: 511582002800 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 11 of 24

Fig. 10: RT-PCR Analysis of 85P1B3 Expression

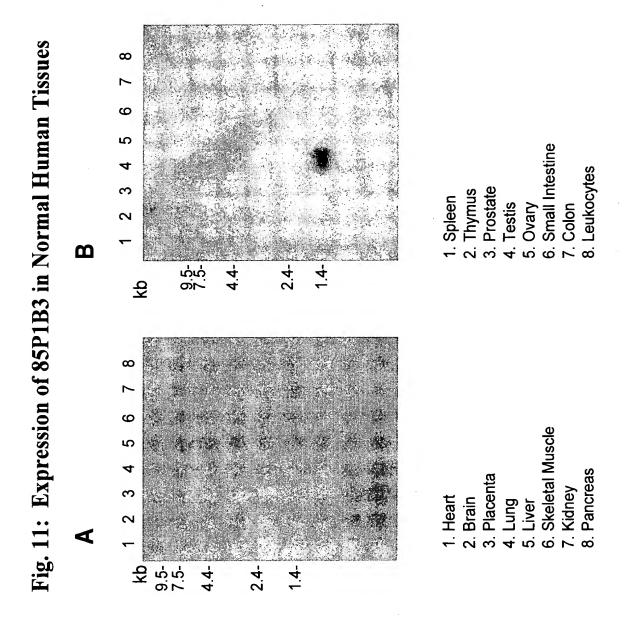
1) Vital Pool 1



Docket No.: 511582002800 App No.: 09/942,052 Docket No.: 51158200280 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER

(AS AMENDED)
REPLACEMENT SHEET

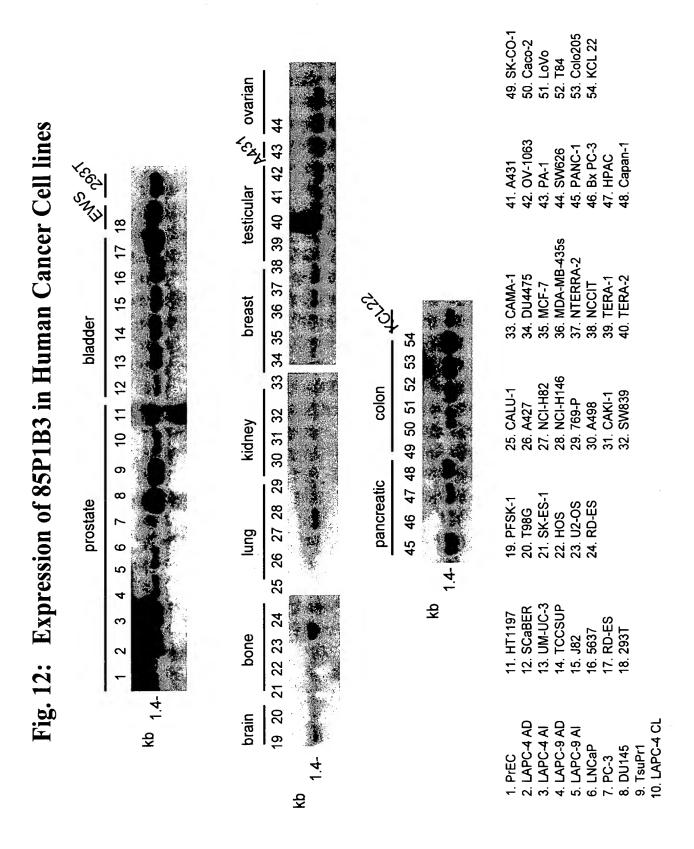
Sheet 12 of 24



Docket No.: 511582002800

App No.: 09/942,052 Docket No.: 5115820020
Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN
USEFUL IN TREATMENT AND DETECTION OF CANCER
(AS AMENDED)
REPLACEMENT SHEET Sheet 13 of

Sheet 13 of 24



App No.: 09/942,052 Docket No.: 5115820028 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER

(AS AMENDED)
REPLACEMENT SHEET

Sheet 14 of 24

Docket No.: 511582002800

Fig. 13: Expression of 85P1B3 in Patient Cancer Specimens and Cancer

Cancer cell lines are: (from left to right)

MOLT-4 (lymphoblastic leuk.) Daudi (Burkitt's lymphoma) HeLa (cervical carcinoma) A549 (lung carcinoma) G361 (melanoma) HL-60 (PML) K562 (CML)

SW480 (colorectal carcinoma)

Raji (Burkitt's lymphoma)

cervix prostate $Z \vdash$ cer cell lines stomach uterus 🏂 🦫 breast Z H Z H Z ⊦

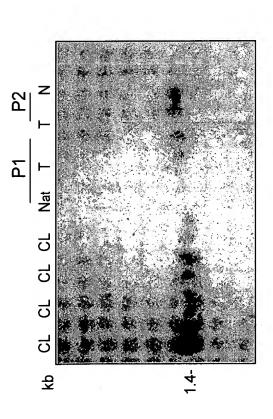
N = normal adjacent tissue RNA T = tumor RNA

App No.: 09/942,052 Docket No.: 5115820020 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 15 of

Fig. 14: Expression of 85P1B3 in Colon Cancer Patient Specimens

Sheet 15 of 24

P1 – Stage III, T2N1MX P2 – Stage III, T3N1MX



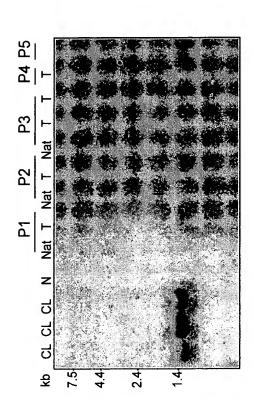
Cell Lines (CL) - Colo 205, LoVo, 784, Caco-2 Nat = Normal Adjacent tissue T = Tumor = Normal Colon >

(AS AMENDED)

Fig. 15: Expression of 85P1B3 in Bladder Cancer Patient Specimens

REPLACEMENT SHEET

Sheet 16 of 24



P2 - Transitional, grade 3/2 P1 - Transitional, grade 2

P3 - Transitional

P4 - Polypoid cystitis

P5 - Papillary, grade 3

= cell lines listed in order: UM-UC-3, J82, SCABER SDO

= Patient

= Normal Bladder

Nat = Normal adjacent tumor T = Tumor

Docket No.: 511582002800

App No.: 09/942,052 Docket No.: 5115820020 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED)
REPLACEMENT SHEET Sheet 17 of

A427, NCI-H82, NCI-H146 = cell lines (listed in order):

ರ

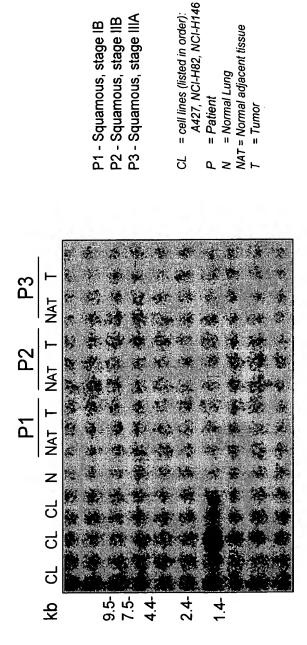
a >

NAT = Normal adjacent tissue T = Tumor = Normal Lung = Patient

= Tumor

Sheet 17 of 24

Fig. 16: Expression of 85P1B3 in Lung Cancer Patient Specimens



No.: 09/942,052 Docket No.: 511582002800

App No.: 09/942,052 Inventor: Arthur B. RAITANO et al.

Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER

LAPC-9AD Day 0 - Mouse #1 LAPC-9AD Day 7 - Mouse #2 LAPC-9AD Day 7 - Mouse #3

LAPC-9AD Day 15 – Mouse #4 LAPC-9AD Day 15 – Mouse #5

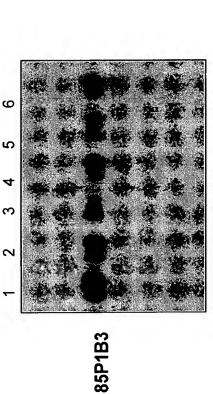
LAPC-9AD Day 21 - Mouse #6

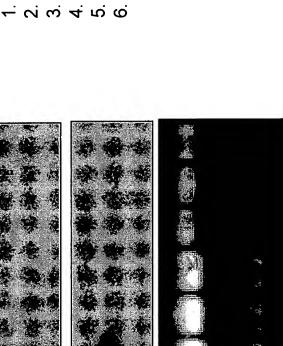
(AS AMENDED)

REPLACEMENT SHEET

Sheet 18 of 24

Fig. 17: Expression of 85P1B3 in Prostate Cancer Xenografts Following Castration



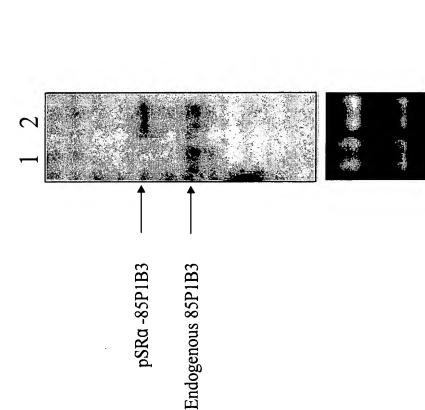


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App No.: 09/942,052 Docket No.: 5115820020
Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN
USEFUL IN TREATMENT AND DETECTION OF CANCER
(AS AMENDED)
REPLACEMENT SHEET Sheet 19 of Docket No.: 511582002800

Sheet 19 of 24

Fig. 18: Expression of 85P1B3 in PC3 Cells Following Retroviral-Mediated Gene Delivery



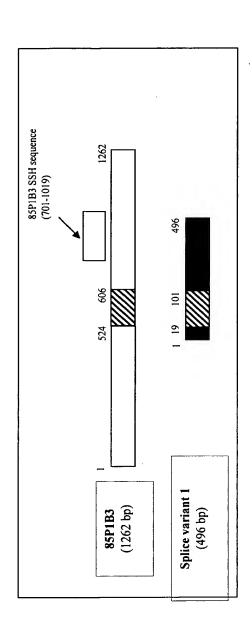
LAPC-9AI
 PC3-85P1B3

Docket No.: 511582002800

App No.: 09/942,052 Docket No.: 51158200280 Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER

(AS AMENDED)
REPLACEMENT SHEET

Sheet 20 of 24



Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN USEFUL IN TREATMENT AND DETECTION OF CANCER (AS AMENDED) REPLACEMENT SHEET Sheet 21 of 24 E81456-1565 Anti-His pAb 1862 Y 8 35 4 8 131 (moz) E81 d58-1662 Anti-85P1B3 pAb 1862 $\mathbf{\omega}$ 131 96 44 35 8 0005:1 Anti-85P1B3 pAb 001.7 Fig. 20 96 8 44 35 33 GST-85P1B3 -GST

App No.: 09/942,052 Inventor: Arthur B. RAITANO et al.

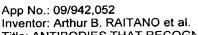
Docket No.: 511582002800

App No.: 09/942,052 Docket No.: 51158200286
Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN
USEFUL IN TREATMENT AND DETECTION OF CANCER
(AS AMENDED)
REPLACEMENT SHEET Sheet 22 of 3 Docket No.: 511582002800

Sheet 22 of 24

| c: random coil (49.34%) | e: extended strand (13.97%) | h: alpha helix (36.68%) |
|-------------------------|-----------------------------|-------------------------|
| ML | CC | SC |

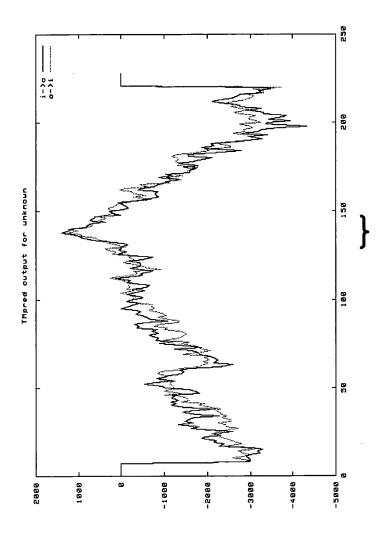
| 10 | 20 | 30 | 40 | 20 | 09 | 70 | |
|--|---------------------|------------|------------|------------|--------------------|---------------|---|
| _ | _ | _ | _ | _ | _ | _ | |
| MAAQPLRHRSRCATPPRGDFCGGTERAIDQASFTTSMEWDTQVVKGSSPLGPAGLGAEEPAAGPQLPSWL | PPRGDFCGGTE | RAIDQASFT | TSMEWDTQVV | KGSSPLGPAG | LGAEEPAAGP(| DLPSWL | Ū |
| cccccccccccccccccccchphhhcccceeccccceeeecccccccc | cccccccchh | hhhccccee | eccccceee | ecccccccc | ددددددددد | 222222 | |
| QPERCAVFQCAQCHAVLADSVHLAWDLSRSLGAVVFSRVTNNVVLEAPFLVGIEGSLKGSTYNLLFCGSC | AVĽADSVHLAW | DLSRSLGAV | VESRVTNNVV | LEAPFLVGIE | GSLKGSTYNLI | LFCGSC | |
| chhhhhhhhhhhhhhhhhhhhhhhhhccceeeeeccceeeeccceeeeccc | դրրիրիրիրի <u>ի</u> | hhhhcccee | eeeeccccee | oecceeeeec | cccccceeee | seeccc | |
| GIPVGFHLYSTHAALAALRGHFCLSSDKMVCYLLKTKAIVNASEMDIQNVPLSEKIAELKEKIVLTHNRL | LAALRGHFCLS | SDKMVCYLLI | KTKAIVNASE | MDIQNVPLSE | KIAELKEKIVI | LTHNRL | |
| ссссирьныныныныныныныныныныныныныныныныныныны | nhhhhcccecc | chhhhhhhhl | hhceeeccc | cccccchhh | հ հհհհհհհհհ | ոհհհհհ | |
| KSLMKILSEVTPDQSKPEN | SKPEN | | | | | | |
| hhhhhehcccccccccc | 2000 | | | | | | |



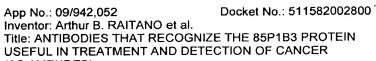
App No.: 09/942,052 Docket No.: 5115820028
Inventor: Arthur B. RAITANO et al.
Title: ANTIBODIES THAT RECOGNIZE THE 85P1B3 PROTEIN
USEFUL IN TREATMENT AND DETECTION OF CANCER
(AS AMENDED)
REPLACEMENT SHEET Sheet 23 of

Sheet 23 of 24

Docket No.: 511582002800

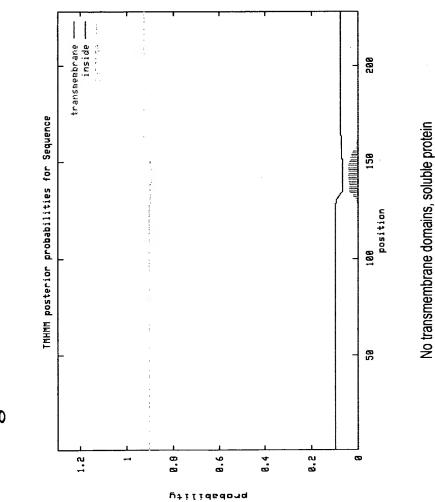


1 transmembrane from amino acids 129-149



(AS AMENDED)
REPLACEMENT SHEET

Sheet 24 of 24



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